

Electrical Data for OPEN - CLOSE Duty

auma®		Electrical Data OPEN-CLOSE Duty					SAEx3 - SAE100			
Model	Output Speed at 50Hz rpm	Torque max. Nm	Three phase Squirrel cage AC Motor 415V, 50 Hz							
			Nominal Output kW	Speed rpm	Size	Nominal Current/ Full Load Current *	Current at Max. Torque ¹⁾ A	Starting Current A	Power Factor Cos ϕ	Full Load Efficiency (%)
SAEx 3	11	30	0.06	1400	71	0.29	0.30	1.2	0.60	48
	16		0.06	1400	71	0.29	0.38	1.2	0.60	48
	22		0.06	1400	71	0.29	0.50	1.2	0.60	48
	32		0.12	1400	71	0.45	0.62	2.3	0.62	61
	45		0.18	2800	71	0.51	0.84	3.3	0.75	65
	63		0.18	2800	71	0.51	1.16	3.3	0.75	65
	90		0.37	2800	71	0.93	1.62	5.5	0.76	73
	125		0.37	2800	71	0.93	1.40	5.5	0.76	73
180	0.37	2800	71	0.93	2.05	5.5	0.76	73		
SAEx 6	4	60	0.06	1400	71	0.29	0.25	1.2	0.60	48
	5.6		0.06	1400	71	0.29	0.30	1.2	0.60	48
	8		0.06	1400	71	0.29	0.38	1.2	0.60	48
	11		0.12	1400	71	0.45	0.45	2.3	0.62	61
	16		0.12	1400	71	0.45	0.62	2.3	0.62	61
	22		0.12	1400	71	0.45	0.90	2.3	0.62	61
	32		0.18	2800	71	0.51	1.18	3.3	0.75	65
	45		0.37	2800	71	0.93	1.62	5.5	0.76	73
	63	0.37	2800	71	0.93	2.34	5.5	0.76	73	
	90	0.55	2800	71	1.5	3.08	9.0	0.71	75	
	125	0.55	2800	71	1.5	2.45	9.0	0.71	75	
	180	0.55	2800	71	1.5	3.52	9.0	0.71	75	
SAEx 12	4	120	0.06	1400	71	0.29	0.38	1.2	0.60	48
	5.6		0.12	1400	71	0.45	0.46	2.3	0.62	61
	8		0.12	1400	71	0.45	0.62	2.3	0.62	61
	11		0.12	1400	71	0.45	0.90	2.3	0.62	61
	16		0.25	1400	71	1.2	1.45	4.6	0.50	60
	22		0.25	1400	71	1.2	1.80	4.6	0.50	60
	32		0.37	2800	71	0.93	2.42	5.5	0.76	73
	45		0.55	2800	71	1.5	3.08	9.0	0.71	75
	63	1.1	2800	71	2.9	4.58	16.0	0.72	75	
	90	1.1	2800	71	2.9	6.50	16.0	0.72	75	
	125	1.1	2800	71	2.9	5.10	16.0	0.72	75	
	180	1.1	2800	71	2.9	7.50	16.0	0.72	75	
SAEx 15	4	150	0.06	1400	71	0.29	0.45	1.2	0.60	48
	5.6		0.12	1400	71	0.45	0.55	2.3	0.62	61
	8		0.12	1400	71	0.45	0.83	2.3	0.62	61
	11		0.25	1400	71	1.2	1.36	4.6	0.50	60
	16		0.25	1400	71	1.2	1.66	4.6	0.50	60
	22		0.37	2800	71	0.93	2.0	5.5	0.76	73
	32		0.55	2800	71	1.5	2.75	9.0	0.71	75
	45		1.1	2800	71	2.9	4.26	16.0	0.72	75
63	1.1	2800	71	2.9	5.67	16.0	0.72	75		
SAEx 25	4	250	0.12	1400	71	0.45	0.65	2.3	0.62	61
	5.6		0.25	1400	71	1.2	1.29	4.6	0.50	60
	8		0.25	1400	71	1.2	1.64	4.6	0.50	60
	11		0.55	1400	71	1.75	1.92	7.6	0.66	67
	16		0.55	1400	71	1.75	2.60	7.6	0.66	67
	22		0.55	1400	71	1.75	3.58	7.6	0.66	67
	32		1.1	2800	71	2.9	4.75	16.0	0.72	75
	45		1.1	2800	71	2.9	6.58	16.0	0.72	75
	63	2.2	2800	90	4.1	8.44	35.0	0.88	85	
	90	2.2	2800	90	4.1	12.5	35.0	0.88	85	
125	2.2	2800	90	4.1	8.95	35.0	0.88	85		
180	2.2	2800	90	4.1	13.6	35.0	0.88	85		

1) Current at max. torque. We recommended to select switch gear and cables suitable for those values.

We reserve the right to alter data according to improvements made. Previous data sheets become invalid with the issue of this data sheet.

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Model	Output Speed at 50Hz rpm	Torque max. Nm	Three phase Squirrel cage AC Motor 415V, 50 Hz							
			Nominal Output kW	Speed rpm	Size	Nominal Current A	Current at Max. Torque ¹⁾ A	Starting Current A	Power Factor Cos ϕ	Full Load Efficiency (%)
SAEx 30	4	300	0.12	1400	71	0.45	0.82	2.3	0.62	61
	5.6		0.25	1400	71	1.2	1.39	4.6	0.50	60
	8		0.25	1400	71	1.2	1.77	4.6	0.50	60
	11		0.55	1400	71	1.75	2.20	7.6	0.66	67
	16		0.55	1400	71	1.75	3.08	7.6	0.66	67
	22		1.1	1400	90	2.9	3.95	19.0	0.72	75
	32		1.1	2800	71	2.9	5.72	16.0	0.72	75
	45		1.25	2800	90	2.7	8.65	22.0	0.81	79
	63		2.2	2800	90	4.1	10.0	35.0	0.88	85
	90	2.5	2800	90	4.7	15.5	35.0	0.88	84	
	125	264	2.5	2800	90	4.7	11.5	35.0	0.88	84
180	4.0		2800	90	9.0	16.5	60.0	0.82	82	
SAEx 50	4	500	0.25	1400	71	1.2	1.48	4.6	0.50	60
	5.6		0.55	1400	71	1.75	1.95	7.6	0.66	67
	8		0.55	1400	71	1.75	2.60	7.6	0.66	67
	11		0.55	1400	71	1.75	3.58	7.6	0.66	67
	16		1.1	1400	90	2.9	4.80	19.0	0.72	75
	22		1.1	1400	90	2.9	6.65	19.0	0.72	75
	32		2.2	2800	90	4.1	8.52	35.0	0.88	85
	45		2.2	2800	90	4.1	12.5	35.0	0.88	85
	63		4.0	2800	90	9.0	17.1	60.0	0.82	82
	90	4.0	2800	90	9.0	26.0	60.0	0.82	82	
	125	450	4.0	2800	90	9.0	18.2	60.0	0.82	82
180	4.0		2800	90	9.0	28.5	60.0	0.82	82	
SAEx 60	4	600	0.25	1400	71	1.2	1.67	4.6	0.50	60
	5.6		0.55	1400	71	1.75	2.2	7.6	0.66	67
	8		0.55	1400	71	1.75	3.08	7.6	0.66	67
	11		0.55	1400	71	1.75	5.15	7.6	0.66	67
	16		1.1	1400	90	2.9	5.75	19.0	0.72	75
	22		2.2	1400	90	5.7	7.92	35.0	0.70	77
	32		2.2	2800	90	4.1	10.04	35.0	0.88	85
	45		4.0	2800	90	9.0	15.05	60.0	0.82	82
	63		4.0	2800	90	9.0	21.08	60.0	0.82	82
	90	5.0	2800	112	10.8	31.08	90.0	0.84	88	
	125	540	5.0	2800	112	10.8	22.5	90.0	0.84	88
180	5.0		2800	112	10.8	35.5	90.0	0.84	88	
SAEx 100	4	1000	0.55	1400	71	1.75	2.55	7.6	0.66	67
	5.6		0.75	1400	90	1.85	3.85	12.0	0.75	75
	8		0.75	1400	90	1.85	4.65	12.0	0.75	75
	11		1.1	1400	90	2.9	6.65	19.0	0.72	75
	16		2.2	1400	90	5.7	9.06	35.0	0.70	77
	22		2.2	1400	90	5.7	12.5	35.0	0.70	77
	32		4.0	2800	90	9.0	17.5	60.0	0.82	82
	45		4.0	2800	90	9.0	26.0	60.0	0.82	82
	63		7.5	2800	112	15.0	40.0	116.0	0.82	84
	90	7.5	2800	112	15.0	60.0	116.0	0.82	84	
	125	900	7.5	2800	112	15.0	44.6	116.0	0.82	84
180	7.5		2800	112	15.0	68.0	116.0	0.82	84	

Permissible voltage variation: $\pm 10\%$, Permissible frequency variation : $\pm 5\%$, Permissible combined variation: 10% if voltage drops below there will be reduction of nominal output.

AUMA motors are provided with 3 thermostiches one in each winding connected in series to protect windings. Our Warranty is void if these thermostiches are not connected in control circuit.

Motor data are approximate. Due to manufacturing tolerances, given values may deviate.

1) Current at max. torque. We recommend to select switch gear and cables suitable for those values.

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